

U. S. Department of Agriculture - Forest Service
CENTRAL STATES FOREST EXPERIMENT STATION
Columbus, Ohio

Station Note
No. 19

December 8, 1934

A BLACK WALNUT VOLUME TABLE
FOR CONTENTS IN BOARD FEET

Plantation Black Walnut
(*Juglans nigra* Linn.)
Central States Region

B. R. Lexen
V. A. Clements

1930

International 1/8" kerf
5.0" top d.i.b.

Diameter breast high		Total Height in Feet							Basis: No. of trees
		30	40	50	60	70	80	90	
Inches (o.b.) (i.b.)		Volume in board feet							
7	5.9	1	5	9	14	18			13
8	6.8	4	11	18	24	29			35
9	7.6	9	18	26	34	42	49		25
10	8.5	14	25	36	47	58	67		29
11	9.4		32	46	60	75	87	96	29
12	10.2		39	56	75	92	106	119	29
13	11.2		48	69	90	110	128	144	27
14	12.0		56	81	106	130	151	170	16
15	12.9		65	94	123	150	177	197	16
16	13.8			107	140	175	200	227	13
17	14.6			123	160	200	230	260	10
18	15.5			140	184	227	262	296	6
19	16.4			158	208	256	297	335	4
20	17.3				230	286	332	376	2
21	18.2				257	318	368	415	1
22	19.0				282	350	405	458	1
23	19.9				312	383	450	500	-
Basis: No. of trees		-	12	41	92	86	24	1	256

Based on trees measured by the Central States Forest Experiment Station in Kentucky, Indiana, Illinois and Iowa, under the supervision of L. F. Kellogg. Stump height 1.0 ft. Top diameter inside bark 5.0". Scaled in 12-ft log lengths with trimming allowance of 0.3 ft. Additional top sections scaled as fractions of a 12-ft-5.0" log. Aggregate deviation: Chart is 0.5% low. . . Average percentage deviation on 215 trees, 7.0" and over, 8.49%. Block indicates extent of basic data. Prepared by the alignment chart method in the Washington Office.

This is the third of five volume tables for plantation black walnut, prepared from the study of walnut throughout the Central States.